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[Smart polymers and what they could do in biotechnology and medicine](#)

IY Galaev, B Mattiasson - Trends in biotechnology, 1999 - Elsevier

... transition) above a certain threshold of an external stimulus such as pH, temperature, **ionic** strength or ... to control **drug** release, because the diffusion of the **drug** out of the **beads** depends on the ... When a smart **polymer** is integrated into a microcapsule wall [37] or a liposomal lipid ...

[Cited by 254](#) - [Related articles](#) - [All 5 versions](#)

[... high-performance liquid chromatography using monodisperse polymer beads ...](#)

V Smigol, F Svec, JMJ Frechet - Analytical chemistry, 1994 - pubs.acs.org

... Chromatography Using Monodisperse **Polymer** ... A plot of log k' against **ionic** strength of the mobile phase for these **beads** shows the absence of hydrophobic interactions and documents the clean **ion**-exchange mechanism of protein separation. ...

[Cited by 18](#) - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)

[... and characterization of chitosan microparticles intended for controlled drug ...](#)

JA Ko, HJ Park, SJ Hwang, JB Park, JS Lee - International journal of ..., 2002 - Elsevier

... For example, chitosan **beads**, micro or nanoparticles were produced by **ionic** cross-linking with tripolyphosphate (TPP) (Bodmeier; Shiraishi and Calvo). Shu and Shu reported the chitosan **bead**, which was prepared with TPP, increased the **drug** loading efficiency as well as ...

[Cited by 115](#) - [Related articles](#) - [All 6 versions](#)

[Bioadhesive polymers as platforms for oral controlled drug delivery II: Synthesis ...](#)

HS Ch'Ng, H Park, P Kelly, JR ... - Journal of ..., 2006 - interscience.wiley.com

... of poly(acrylic acid-divinyl glycol) was studied at constant temperature, **ionic** strength, and ... shown to have substantially longer GI transit times than the control, Amberlite 200 resin **beads**. ... acid **polymer** showed a longer GI transit time than the methacrylic acid **polymer**, and this ...

[Cited by 210](#) - [Related articles](#) - [All 5 versions](#)

[... chloride crosslinked carboxymethyl guar gum beads for gastrointestinal drug ...](#)

RT Thimma, S Tammishetti - Journal of Applied Polymer ..., 2001 - interscience.wiley.com

... guar gum; microbeads; protein **drugs**; gastrointestinal delivery; microencapsulation; **drug** delivery systems; hydrophilic polymers; metal-**polymer** complexes. ... The **drug** loading efficiency of these Ba ++ /CMGG **beads**, as a function of concentration of both metal **ion** as well as ...

[Cited by 24](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[... utilizing pH-/temperature-responsive polymer stationary phases to separate ionic ...](#)

J Kobayashi, A Kikuchi, K Sakai, T Okano - Anal. Chem, 2001 - pubs.acs.org

... **Polymer** hydrogel-modified silica **beads** were packed into a stainless steel column (150 mm × 4.6 mm id) from a slurry of **beads** in water/methanol (1:1) using a ... Mobile phase comprised phosphate/citrate buffer adjusted to constant **ionic** strength ($I = 0.1$) by addition of KCl. ...

[Cited by 37](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[Alginate/chitosan particulate systems for sodium diclofenac release](#)

ML Gonzalez-Rodriguez, MA Holgado, C ... - International journal of ..., 2002 - Elsevier

... The anti-inflammatory **drug** (as sodium salt) is dissolved in an aqueous solution containing the soluble **polymer** and, in the case of carboxylate-containing polymers (alginate, carboxymethyl cellulose), the formation of ... The **ionic** gelation method gave **beads** with a high ...

[Cited by 66](#) - [Related articles](#) - [All 5 versions](#)

Functional **polymer** microspheres

H Kawaguchi - Progress in **polymer** science, 2000 - Elsevier

... It was concluded that Coulomb effect is dominant in the medium with low **ionic** strength but hydrophobic interaction becomes more important in the medium with higher **ionic** strength. ...

2.1.2. Use of thermosensitive polymers. **Polymer** gel **beads**, which are crosslinked particles ...

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... to prepare 100 [μ] m-sized microcapsules with prolonged **drug**-release by the ...

H Ichikawa, K Fujioka, MC Adeyeye, Y ... - International journal of ..., 2001 - Elsevier

... **ion**-exchange resin (IER)-**drug** complexes were used as core materials to explore ... a 100 μ m-sized, highly **drug**-incorporated microcapsule with a prolonged **drug** release by ... and subsequently microencapsulated with two types of aqueous colloidal **polymer** dispersion, Aquacoat ...

[Cited by 36](#) - [Related articles](#) - [All 3 versions](#)

[CITATION] **Ionic** polymers as **drug** carriers

EH Schacht - Controlled **Drug** Delivery: Basic concepts, 1983 - CRC

[Cited by 9](#) - [Related articles](#)



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catalysts ionically bound to polymer

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Poly (N-isopropylacrylamide) soluble **polymer** supports in **catalysis** and synthesis

DE Bergbreiter, BL Case, YS Liu, JW Caraway - *Macromolecules*, 1998 - [pubs.acs.org](#)

... turning off and then on as the **polymer-bound catalyst** dissolves and precipitates. This behavior is illustrated in Figure 2 below for hydrogenation of allyl alcohol by 22. figure Figure 2 On/off behavior exhibited for the Rh(I) hydrogenation **catalyst** (22) **bound ionically** to a PNIPAM ...

[Cited by 151](#) - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)

Combinatorial chemistry using **polymer**-supported reagents

SW Kaldor, MG Siegel - *Current Opinion in Chemical Biology*, 1997 - Elsevier

... 1). Stoichiometric reagents and **catalysts** participate in the formation of product, while scavengers are ... solution at the end of the reaction are those that remain **bound** to the ... Our definition of polymersupported reagents includes **ionically** or covalently linked activating reagents (eg ...

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Palladium/phosphinated polystyrene as a **catalyst** in the Heck arylation. A ...

CM Andersson, K Karabelas, A Hallberg, C ... - *The Journal of Organic Chemistry*, 1985 - [pubs.acs.org](#)

... For **ionically bound** palladium(II), see: (1) Holy, NL; Shelton, SR *Tetrahedron* 1981, 37 ...

polymer-bound phosphine ligands tend to be less efficient than phosphines in solution in stabilizing ... metal particle and metal complex **catalysis** is not restricted to supported **catalysts** but ...

[Cited by 53](#) - [Related articles](#) - [All 2 versions](#)

... photooxidations with molecular oxygen using metal phthalocyanines as **catalysts** ...

D Wohrle, O Suvorova, R Gerdas, O ... - *JOURNAL OF PHOTOGRAPHY SCIENCE*, 2004 - [worldscinet.com](#)

... 2 or covalently and coordinatively **bound** on SiO₂ and organic **polymers** or **ionically bound** on an ... Heterogeneous **catalysts** can exhibit higher activities than low molecular weight phthalocyanines. ... A Si(IV) phthalocyanine derivative on a **polymer** ion exchanger is most active ...

[Cited by 31](#) - [Related articles](#) - [BL Direct](#)

... protected by surface-**bound** monolayers of thiolated poly (ethylene glycol) **polymer** ...

WP Wuelfing, SM Gross, DT Miles, RW Murray - *J. Am. Chem. Soc.*, 1998 - [pubs.acs.org](#)

... Nanometer Gold Clusters Protected by Surface-**Bound** Monolayers of Thiolated Poly(ethylene glycol) ... fabrication and potential application in areas as diverse as **catalysis**, nonlinear optics ... 5 in new **polymer** electrolyte media, a semisolid having an **ionically** conductive nanophase ...

[Cited by 88](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

Supported transition metal complexes as **catalysts**

FR Hartley, PN Vezey - *Adv. Organomet. Chem.*, 1977 - [books.google.com](#)

... been reported in the last decade or so in which enzymes **bound** to organic **polymers** or glass supports have been studied (80), the idea of binding homogeneous **catalysts** to solid ... polystyrene resins in which the metal complex (eg, [Pt (NH₃)₄]²⁺) was **ionically bound** to the ...

[Cited by 109](#) - [Related articles](#) - [All 2 versions](#)

[PDF] Antithrombogenic **polymers**

M Jozefowicz, J Jozefowicz - *Pure Appl Chem*, 1984 - [old.iupac.org](#)

... Therefore, a suitable anticoagulant biomaterial should be a **catalyst** of inhibition reactions of the coagulation ... their heparin content by exposure to the blood stream, if the covalently **bound** heparin remains ... remain potent a longer time than it is the case for **ionically bound** heparin. ...

